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| APPLICATION NO.                              | FILING DATE                        | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|------------------------------------|----------------------|---------------------|------------------|
| 10/556,641                                   | 11/06/2006                         | Sandrine Salle       | REGIM 3.3-069       | 8511             |
|  | 7590 02/20/200<br>/ID, LITTENBERG, | EXAMINER             |                     |                  |
| KRUMHOLZ &                                   | & MENTLIK                          |                      | WESTERBERG, NISSA M |                  |
| 600 SOUTH AVENUE WEST<br>WESTFIELD, NJ 07090 |                                    |                      | ART UNIT            | PAPER NUMBER     |
|  |                                    |                      | 1618                |                  |
|  |                                    |                      |                     |                  |
|  |                                    |                      | MAIL DATE           | DELIVERY MODE    |
|  |                                    |                      | 02/20/2009          | PAPER            |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

|  | Application No.  | Applicant(s)   |  |  |
|--|--|--|--|--|
|  | 10/556,641   | SALLE ET AL.   |  |  |
| Office Action Summary  | Examiner   | Art Unit   |  |  |
|  | Nissa M. Westerberg  | 1618   |  |  |
| The MAILING DATE of this communication a<br>Period for Reply   | appears on the cover sheet with th   | e correspondence address   |  |  |
| A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perion of the period for reply will, by station of the period for reply will, by station of the period of the period for reply will, by station of the period for reply will. By station of the period for reply will, by station of the period for reply will be stationary to th | DATE OF THIS COMMUNICAT<br>1.136(a). In no event, however, may a reply be<br>iod will apply and will expire SIX (6) MONTHS f<br>tute, cause the application to become ABANDO | ON. e timely filed  rom the mailing date of this communication.  DNED (35 U.S.C. § 133). |  |  |
| Status   |  |  |  |  |
| Responsive to communication(s) filed on 15     This action is <b>FINAL</b> . 2b) ☐ T     Since this application is in condition for allow closed in accordance with the practice under   | his action is non-final. wance except for formal matters,  | •  |  |  |
| Disposition of Claims  |  |  |  |  |
| 4)  Claim(s) 1, 4 - 7 is/are pending in the applic 4a) Of the above claim(s) is/are without 5)  Claim(s) is/are allowed.  6)  Claim(s) 1, 4 - 7 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and Application Papers   | lrawn from consideration.  |  |  |  |
| 9)☐ The specification is objected to by the Exam   | iner   |  |  |  |
| 10) The drawing(s) filed on is/are: a) a  Applicant may not request that any objection to to  Replacement drawing sheet(s) including the corr  11) The oath or declaration is objected to by the   | accepted or b) objected to by the drawing(s) be held in abeyance. rection is required if the drawing(s) is   | See 37 CFR 1.85(a).<br>objected to. See 37 CFR 1.121(d).                                 |  |  |
| Priority under 35 U.S.C. § 119   |  |  |  |  |
| <ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>   |  |  |  |  |
| Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date   | 4) Interview Summ Paper No(s)/Mai 5) Notice of Inform 6) Other:  |  |  |  |

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#### **DETAILED ACTION**

Applicants' arguments, filed December 15, 2008, have been fully considered but they are not deemed to be fully persuasive. The following rejections and/or objections constitute the complete set presently being applied to the instant application.

## Claim Rejections - 35 USC § 112 – 1st Paragraph

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1 and 4 – 7 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. This rejection is MAINTAINED for the reasons of record set forth in the Office Action mailed September 11, 2008 and those set forth below.

Applicant traverses this rejection on the grounds that the amended claims clearly define the scope of the invention and that one skilled in the art would recognize that Applicant have invented the claimed subject matter. Several categories of suitable water-insoluble macromolecular substances are enumerated and specific, non-limiting examples of each category are given and that one skilled in the art would recognize that other alkyl, vinyl and acrylic derivatives would also be suitable and within the purview of this disclosure.

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These arguments are not found to be persuasive. This is a written description rejection because the full scope of compounds encompassed by "water-insoluble alkyl cellulose ether derivatives", "water-insoluble acrylic polymer derivatives" and "water-insoluble vinyl derivatives" is not supported by the instant disclosure. As no indication has been given as to how much or how little modification can be made to each of these classes of compounds, while remaining a "derivative" this rejection is MAINTAINED.

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

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the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1 and 4 – 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hara et al. (JP 02225416A) in view of Samejima et al. (US 5,068,112) and Gowan, Jr. et al. (US 5,405,617). This rejection is MAINTAINED for the reasons of record set forth in the Office Action mailed September 11, 2008 and those set forth below.

Applicant traverses this rejection on the grounds that this rejection is based on an improper attempt at hindsight reconstruction. Hara et al. does not teach the size of the granules, the encapsulation of the granules into a capsule and the presence of a second coating layer containing one or more hot-melt low-melting excipients and thus half of the required elements are missing from Hara et al. Even in the references are combined, the references do not suggest the pharmaceutical composition as claimed. Gowan teaches solventless taste masking carrier or coating that is completely unrelated to the controlled release compositions of the instant invention and has nothing to do with solving the problems involved with Applicants' discovery of sustained release, high bioavailability, pH insensitive beraprost sodium compositions. There is no reasonable

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expectation that even if the references could be combined that such a combination would yield the claimed invention.

These arguments are not found to be persuasive. In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971). In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., beraprost sodium compositions with high bioavailability and pH insensitive) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

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The failure of Hara et al. to recite all of the claim limitations is cured by the secondary references of Samejima et al. and Gowan, Jr. et al. No specific arguments in regards to the Samejima et al. reference were put forth by Applicant as to why one of ordinary skill in the art would not look to this reference to determine the physical size of the enteric coated granules taught by Hara et al. as Samejima et al. discloses enteric coated granules. Gowan, Jr, et al. discloses a taste masking layer which can be applied to pharmaceuticals. Application of this coating to the enteric coated beraprost cores, with improved bioavailability as taught by Hara et al., will result in a multi-layer granule which can be placed in a capsule that will provide for a controlled release of the beraprost and increased bioavailability without any unpleasant taste, provided by the taste masking layer. Therefore, this rejection is MAINTAINED.

# Claim Rejections - 35 USC § 112 – 2<sup>nd</sup> Paragraph

- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. This claim recites the limitation "said first and second layers" in section (d). There is insufficient antecedent basis for this limitation in the claim.

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#### Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nissa M. Westerberg whose telephone number is (571)270-3532. The examiner can normally be reached on M - F, 8:00 a.m. - 4 p.m. ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Hartley can be reached on (571) 272-0616. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael G. Hartley/ Supervisory Patent Examiner, Art Unit 1618

**NMW**